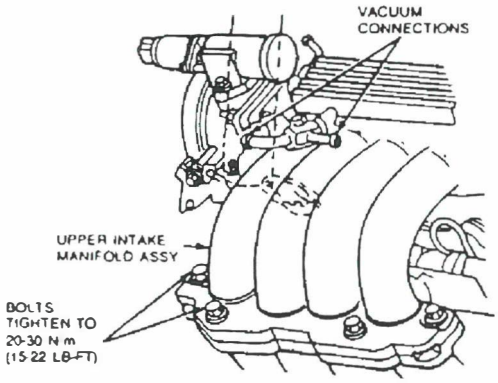
ELECTRONIC FUEL INJECTION KIT
2.3 HSC TEMPO/TOPAZ

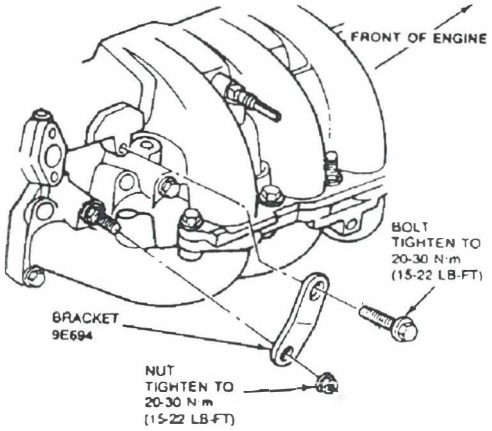
INTAKE MANIFOLD, UPPER

REMOVAL

1. DISCONNECT ENGINE AIR CLEANER OUTLET TUBE FROM AIR INTAKE THROTTLE BODY.
2. UNPLUG THROTTLE POSITION SENSOR FROM WIRING HARNESS.
3. DISCONNECT VACUUM LINES FROM UPPER MANIFOLD.



4. DISCONNECT EGR TUBE AT MANIFOLD CONNECTION.
5. UNPLUG AIR BYPASS VALVE CONNECTOR.
6. REMOVE ACCELERATOR CABLE AND SPEED CONTROL CABLE, IF SO EQUIPPED.
7. REMOVE MANIFOLD UPPER SUPPORT BRACKET TOP BOLT.

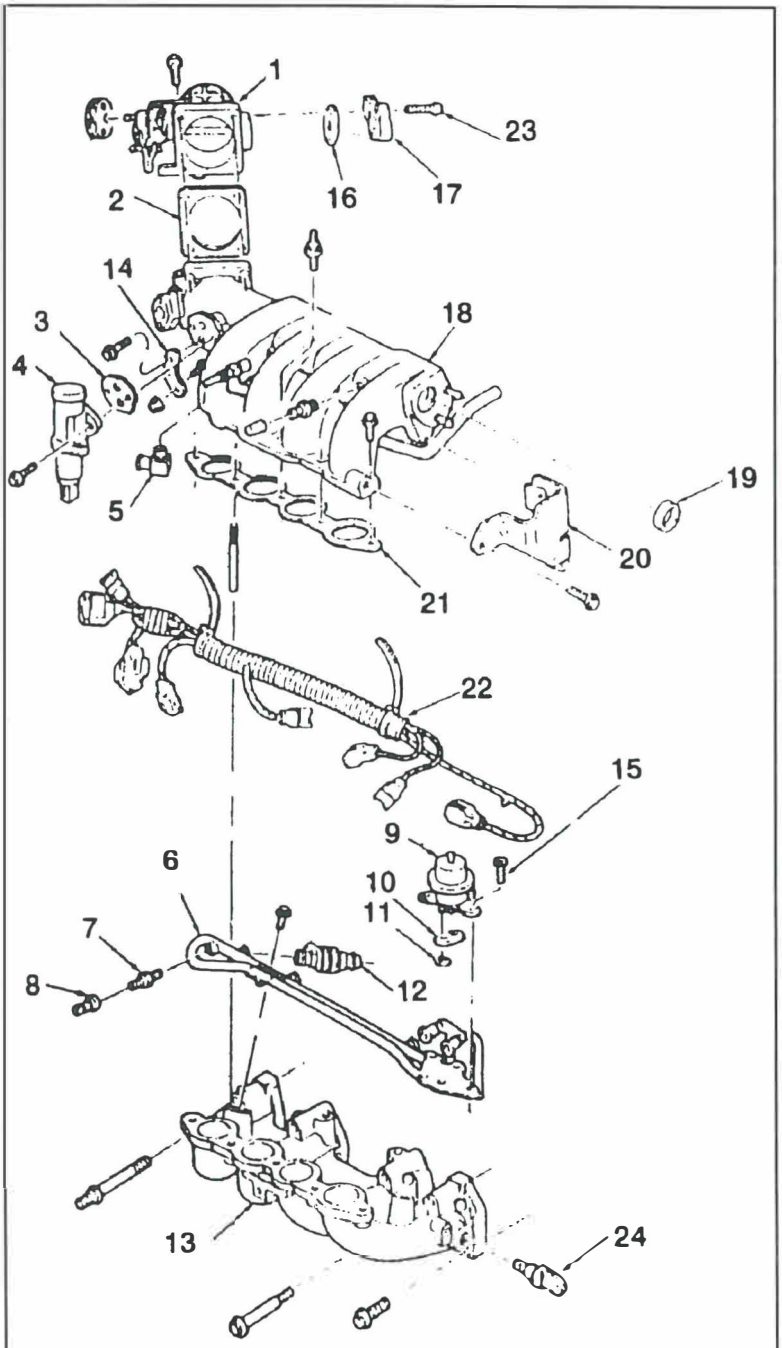


8. REMOVE FUEL SUPPLY MANIFOLD SHIELD.
9. REMOVE FOUR UPPER MANIFOLD RETAINING BOLTS AND ONE RETAINING SHOULDER STUD.
10. REMOVE UPPER MANIFOLD ASSEMBLY AND SET IT ASIDE.
11. REMOVE AND DISCARDGASKET FROM LOWER MANIFOLD ASSEMBLY.

NOTE: IF SCRAPING IS NECESSARY, BE CAREFUL NOT TO DAMAGE GASKET SURFACES OF UPPER AND LOWER MANIFOLD ASSEMBLIES, OR ALLOW MATERIAL TO DROP INTO LOWER MANIFOLD.

INSTALLATION

1. ENSURE THAT GASKET SURFACES OF UPPER AND LOWER INTAKE MANIFOLDS ARE CLEAN.
2. PLACE A NEW SERVICE GASKET ON LOWER MANIFOLD ASSEMBLY AND MOUNT UPPER INTAKE MANIFOLD TO LOWER, SECURING IT WITH FIVE RETAINING BOLTS. TIGHTEN BOLTS TO 20-39 N.M(15-22 LB-FT.)
3. RECONNECT MANIFOLD UPPER SUPPORT BRACKET. TIGHTEN BOLT TO 20-30 N.M(15-22 LB-FT.).
4. RECONNECT EGR TUBE. TIGHTEN TO 40-55 N.M(29.5-40.5 LB-FT.)
5. CONNECT ELECTRICAL CONNECTORS TO AIR BYPASS VALVE AND THROTTLE POSITION SENSOR, AND VACUUM HOSES TO UPPER MANIFOLD.
6. CONNECT ENGINE AIR CLEANER OUTLET TUBE TO THROTTLE BODY INTAKE SECURING IT WITH A HOSE CLAMP. TIGHTEN TO 1.4-2.3 N.M(12-20 LB-IN.).



1. THROTTLE BODY
2. THROTTLE BODY GASKET
3. GASKET
4. TABPV
5. FITTING
6. FUEL RAIL
7. SCHRADER VALVE
8. CAP
9. PRESSURE REGULATOR
10. GASKET
11. O-RING
12. INJECTOR
13. LOWER INTAKE MANIFOLD
14. BRACKET
15. BOLT
16. GASKET
17. THROTTLE POSITION SENSOR
18. UPPER INTAKE MANIFOLD
19. PLUG
20. BRACKET
21. MANIFOLD GASKET
22. INJECTOR WIRING HARNESS
23. BOLT
24. AIR CHARGE TEMPERATURE SENSOR

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FUEL INJECTOR

REMOVAL

1. REMOVE FUEL TANK CAP AND RELEASE PRESSURE FROM FUEL SYSTEM AT FUEL PRESSURE RELIEF VALVE USING FUEL PRESSURE GAUGE WITH DRAIN ATTACHMENT.
2. DISCONNECT FUEL SUPPLY AND RETURN LINE.
3. REMOVE VACUUM LINE FROM FUEL PRESSURE REGULATOR.
4. DISCONNECT FUEL INJECTOR WIRING HARNESS.
5. CAREFULLY REMOVE CONNECTORS FROM INDIVIDUAL INJECTORS.
6. REMOVE TWO BOLTS SECURING INJECTOR MANIFOLD ASSEMBLY TO THE INTAKE MANIFOLD AND REMOVE FUEL INJECTOR MANIFOLD ASSEMBLY.
7. GRASPING INJECTOR'S BODY, PULL UP WHILE GENTLY ROCKING INJECTOR FROM SIDE TO SIDE.
8. INSPECT INJECTOR O-RINGS (TWO PER INJECTOR) FOR SIGNS OF DETERIORATION. REPLACE AS REQUIRED.
9. INSPECT INJECTOR. REPLACE AS REQUIRED.

INSTALLATION

1. LUBRICATE NEW O-RINGS AND INSTALL TWO ON EACH INJECTOR USING LIGHT GRADE OIL.
2. INSTALL INJECTOR(S). USE A LIGHT, TWISTING PUSHING MOTION TO INSTALL INJECTOR(S).
3. CAREFULLY SEAT FUEL INJECTOR MANIFOLD ASSEMBLY ON FOUR INJECTORS. SECURE MANIFOLD WITH TWO ATTACHING BOLTS. TIGHTEN TO 20-30 N.M(15-22 LB-FT).
4. CONNECT VACUUM LINE TO FUEL PRESSURE REGULATOR.
5. CONNECT FUEL INJECTOR WIRING HARNESS.
6. CONNECT FUEL SUPPLY AND FUEL RETURN LINES.
7. CHECK ENTIRE ASSEMBLY FOR PROPER ALIGNMENT AND SEATING.
8. INSTALL UPPER INTAKE MANIFOLD AS OUTLINED ABOVE IN REVERSE ORDER.

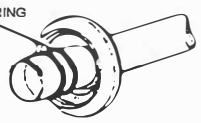
Torque Specifications

Description	N•m	Lb-Ft
Lower Intake Manifold to Head	16-20	12-15
EGR Tube	40-55	29.5-40.5
Air Supply Tube Clamps	1.4-2.3	12-20 Lb-in
Upper Intake Manifold to Lower Intake Manifold Bolts	20-30	15-22
Throttle Body to Upper Intake Manifold	16-20	12-15
Air Bypass Valve to Throttle Body	8-11	71-97 Lb-in
Throttle Position Sensor to Throttle Body	1.2-1.8	14-16 Lb-in
Fuel Pressure Relief Valve	6-10	48-84 Lb-in
Fuel Pressure Relief Valve Cap	0.5-0.7	4-6 Lb-in
Fuel Manifold Assembly to Charging Assembly	20-30	15-22
Fuel Pressure Regulator to Injector Manifold	3-4.5	27-40 Lb-in
Fuel Injector Manifold to Fuel Charging Assembly	20-30	15-22

TO DISCONNECT COUPLING	TO CONNECT COUPLING

CAUTION: *RELIEVE FUEL PRESSURE BEFORE DISONNECTING COUPLING*

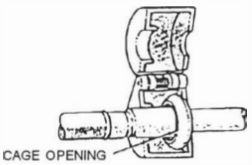
REPLACEMENT GARTER SPRINGS:
3/8 " - E1ZZ-19E576-A
1/2" - E1ZZ-19E576B



1. CHECK FOR MISSING OR DAMAGED GARTER SPRING. REMOVE DAMAGED SPRING WITH SMALL HOOKED WIRE. INSTALL NEW SPRING.

USE SPECIFIED TOOL OR EQUIVALENT

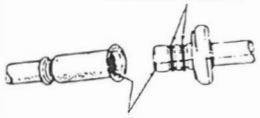
TOOL;
D87L-9280-A-3/8"
D87L-9280-B-1/2"



1. FIT TOOL COUPLING SO THAT TOOL CAN ENTER CAGE OPENING TO RELEASE THE GARTER SPRING

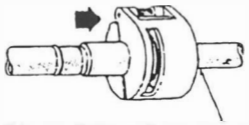
REPLACEMENT O-RINGS
390846-S96 (3/8" DIA., 2 PER FITTING)
390847-S96 (1/2" DIA., 2 PER FITTING)

USE ONLY SPECIFIED FUEL RESISTANT O-RINGS



2. CLEAN FITTINGS WITH SOLVENT. CHECK FOR MISSING OR DAMAGED O-RINGS. REPLACE MISSING O-RINGS. IF EITHER O-RING IS DAMAGED, REPLACE BOTH RINGS.

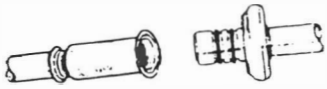
PUSH TOOL INTO CAGE OPENING



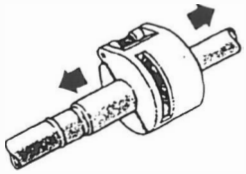
NOTE: SPECIFIED TOOL WILL FIT AROUND RUBBER COVERED FUEL LINE.

2. PUSH THE TOOL INTO THE CAGE OPENING TO RELEASE THE FEMALE FITTING FROM THE GARTER SPRING.

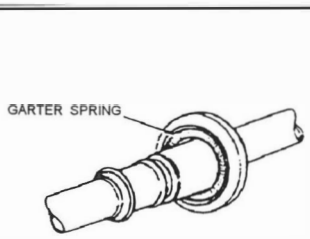
LUBRICATE O-RINGS WITH CLEAN ENGINE OIL.



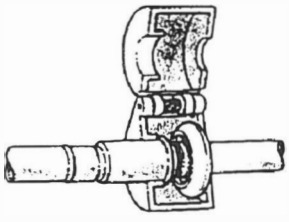
3. ASSEMBLE FITTING BY PUSHING WITH A SLIGHT TWISTING MOTION.



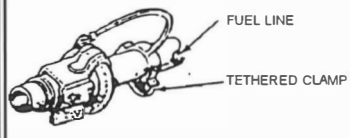
3. PULL THE COUPLING MALE AND FEMALE FITTINGS APART.



4. TO ENSURE COUPLING ENGAGEMENT, PULL ON FITTING AND VISUALLY CHECK TO BE SURE GARTER SPRING IS OVER FLARED END OF FEMALE FITTING.



4. REMOVE THE TOOL FROM THE DISCONNECTED SPRING LOCK COUPLING.



PROPER INSTALLATION OF FUEL LINE SPRING LOCK COUPLING.

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